

In the Claims:

1. (Currently amended) Method for producing a fragrance and/or aroma composition, characterized by using a composition database that is comprised of recipe vectors and attribute vectors associated with a group of base compositions that can be manufactured by mixing predetermined substance components, whereby each recipe vector specifies the proportions of the substance components that are required for the creation of the associated base composition and whereby each attribute vector specifies the evaluation results with regard to selected sensory attributes of the associated base composition, and whereby the method consists of the following steps:

- a) specifying a target attribute vector;
- b) determining an operator which effects a transformation from recipe vectors to attribute vectors at least in a surrounding of the target attribute vector;
- c) establishing a target recipe vector with the proviso that it is transformed to the target attribute vector by using said operator; and
- d) mixing the predetermined substance components with proportions according to the target recipe vector.

2. (Currently amended) Method according to claim 1, ~~characterized by the fact that~~ wherein the composition database is produced by the following steps:

- a) preparing the group of base compositions by mixing the substance components in proportions according to a recipe vector that is associated to each base composition;
- b) quantitatively evaluating each one of the base compositions with regard to the selected sensory attributes and creation of the associated attribute vector; and

c) creating the composition database by storing the recipe vectors and attribute vectors in such a way that the vectors that are associated to each base composition can be retrieved in relation to one another and to the base composition.

3. (Currently amended) Method according to claim 1, wherein ~~or 2, characterized by the fact that~~ the evaluation of the sensory attributes is based on quantitative descriptive analysis.

4. (Currently amended) Method according to claim 1, wherein ~~one of the claims 1 to 3, characterized by the fact that~~ the attributes used to create the attribute vectors are selected by means of a factor analysis.

5. (Currently amended) Method according to claim 1, wherein ~~one of the claims 1 to 4, characterized by the fact that~~ the operator is established by means of one of multiple regression, ~~and/or~~ neuronal networks, ~~and/or~~ and an expert system.

6. (Currently amended) Method according to claim 1, wherein ~~one of the claims 1 to 5, characterized by the fact that~~ the target recipe vector is determined by means of statistical test planning.

7. (Currently amended) Method according to claim 1, wherein ~~one of the claims 1 to 6, characterized by the fact that~~ the target attribute vector is determined through the attribute evaluation of a predetermined composition.

8. (Currently amended) Method according to claim 1, wherein ~~one of the claims 1 to 7, characterized by the fact that~~ attribute vectors are represented in the form of polar diagrams.

9. (Currently amended) Device for carrying out the method according to claim 1, ~~one of the claims 1 to 8~~, with a data processing unit (2), as well as with a mixing device (4) that is controlled by it, whereby the data processing unit (2) comprises means for the entry, storage and retrieval of at least one composition database, as well as means for the entry of attribute vectors, means for the calculation of target recipe vectors and means for the transfer of control signals that are shaped according to the recipe vectors to the mixing device (4), and whereby mixing the device (4) features the following components:

a) a plurality of storage containers (~~6, 6a~~) that can be filled with individual substance components;

b) a plurality of receptacles (~~8, 8a, 8b, 8c~~);

c) a controllable feeding device (~~10~~) ~~in order~~ to bring predetermined quantities of individual substance components from the corresponding storage containers (~~6, 6a~~) to the receptacles (~~8, 8a, 8b, 8c~~) for the creation of one of a fragrance ~~and/or~~ and aroma composition.

10. (New) Method according to claim 2, wherein the evaluation of the sensory attributes is based on quantitative descriptive analysis.

11. (New) Method according to claim 3, wherein the attributes used to create the attribute vectors are selected by means of a factor analysis.

12. (New) Method according to claim 4, wherein the operator is established by means of one of multiple regression, neuronal networks, and an expert system.

13. (New) Method according to claim 5, wherein the target recipe vector is determined by means of statistical test planning.

14. (New) Method according to claim 2, wherein the target attribute vector is determined through the attribute evaluation of a predetermined composition.

15. (New) Method according to claim 3, wherein the target attribute vector is determined through the attribute evaluation of a predetermined composition.

16. (New) Method according to claim 4, wherein the target attribute vector is determined through the attribute evaluation of a predetermined composition.

17. (New) Method according to claim 7, wherein attribute vectors are represented in the form of polar diagrams.

18. (New) Method according to claim 15, wherein attribute vectors are represented in the form of polar diagrams.

19. (New) Method according to claim 16, wherein attribute vectors are represented in the form of polar diagrams.

20. (New) Method according to claim 13, wherein attribute vectors are represented in the form of polar diagrams.